CLAIMS

I claim:

1.   A CPU cooling assembly for cooling a CPU installed in a CPU frame, the CPU frame having a plurality of engaging juts extending outward from opposite lateral sides of the CPU frame, the CPU cooling assembly comprising:

    a heat sink having a plurality of spaced apart cooling fins at an upper portion thereof for dissipating heat, the heat sink further including a positioning groove; and

    a retainer including opposing engaging plates coupled by a connecting bar, the connecting bar corresponding to the positioning groove of the heat sink so that the connecting bar is received within the positioning groove when the retainer is placed over the heat sink and engaged with the CPU frame, the engaging plates of the retainer having a plurality of engaging holes that correspond to the engaging juts of the CPU frame for engaging therewith.

2.   The CPU cooling assembly of claim 1, wherein the connecting bar inclines downward towards a position between the engaging plates, the connecting bar pressing against the heat sink when the cooling assembly is installed.

3. The CPU cooling assembly of claim 1, wherein the heat sink includes a plurality of positioning grooves, each positioning groove corresponding to an opposing pair of engaging juts on a CPU frame.

4. The CPU cooling assembly of claim 1, further comprising a restraining element, wherein the heat sink further includes a holding groove for accommodating the restraining element and substantially perpendicular to the positioning groove, the restraining element compressible to be inserted into the holding groove, thereby securing the retainer to the heat sink.

5. The CPU cooling assembly of claim 1, wherein the retainer further includes a turn plate attached to an engaging plate, wherein the engaging plate can be turned to engage or disengage with engaging juts by activation of the turn plate.

6. The cooling assembly of claim 1, wherein the cooling assembly is adapted to engage with a zero input force CPU frame.

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